

Web Applications & APIs

The Soft Belly of the Cloud

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Agenda

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Web Apps & APIs in the Cloud
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Qualys Web Application Scanning (WAS)

Review

What's New

Roadmap

Qualys Web Application Firewall (WAF)

Review

What's New

Roadmap

Q&A



Insecure Apps & APIs are a Problem

Your business depends on web applications

Any app or API can be a foothold into your organization

Developers are not incentivized for security

Cloud-based apps are easy for developers to deploy

Web Applications are Being Targeted

- Most common data breach pattern *
- > Top hacking vector *

U.S. Postal Service (API)	2018
Facebook (API)	2018
Google+ (API)	2018
MyFitnessPal (API?)	2017
Equifax	2017
Yahoo	2016
Ashley Madison	2015

^{*} Source: 2018 Verizon DBIR

Apps & APIs are Everywhere

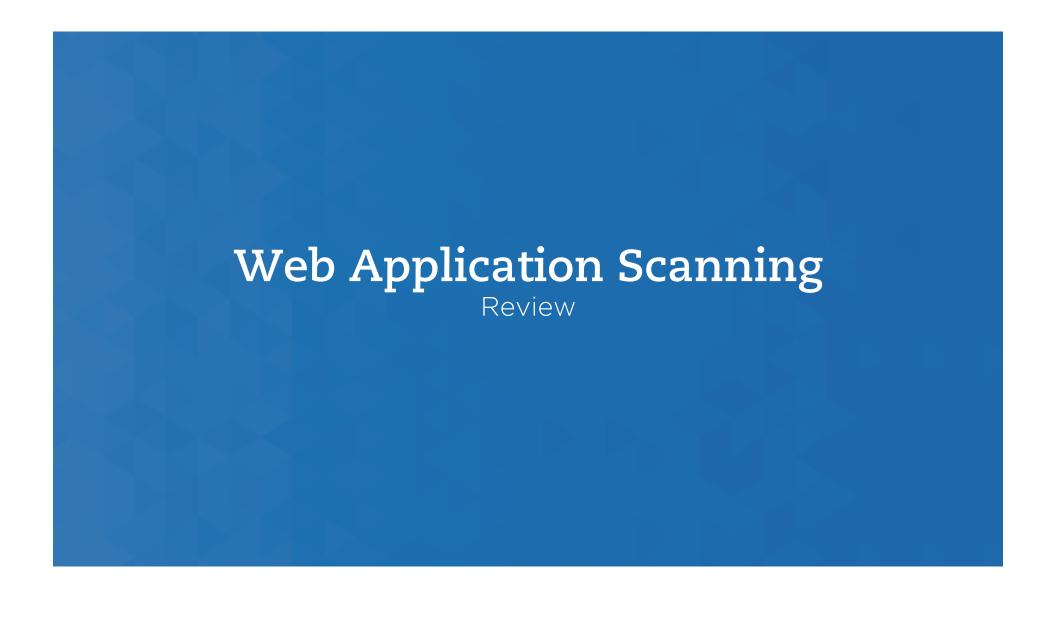












Qualys Web Application Scanning

A leading dynamic application security testing (DAST) tool

Delivered via the Qualys Cloud Platform

Identifies app-layer vulnerabilities

OWASP Top 10

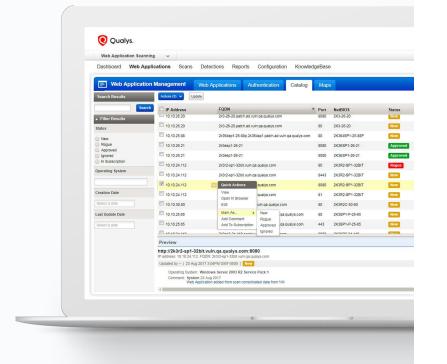
C.WFs

Web-related CVEs

Includes automated crawling

Supports Selenium scripts

Malware monitoring as a bonus





Built for the Enterprise



Web App Discovery
Unlimited scans &
users
RBAC
Tagging



Scheduled scans
Ad-hoc, targeted
scans
Multi-site scans
Retest vulnerability
Scan for malware



Massive scalability
Detection history
Scheduled reports
Customizable
reports
Swagger support



Robust API
CI/CD integration
Unique integration
w/Qualys WAF
Integration with
manual pen testing
tools





Scanning REST APIs



https:// swagger.io



https:// www.openapis.org Swagger is specification that describes a set of REST APIs

Swagger file typically available from dev team

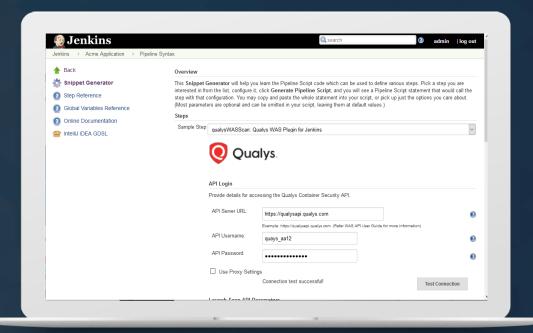
Set Swagger file as target URL in Qualys WAS

API endpoints are automatically tested for vulnerabilities

Swagger v2 JSON format currently supported



Jenkins Plugin for WAS



Manual Testing Complements WAS

Dynamic application testing is one piece of the AppSec puzzle

Manual penetration testing important for your businesscritical apps

Qualys WAS offers:

Bugcrowd integration

Burp Suite integration

Partnerships with consulting shops



Bi-directional Integration with Bugcrowd





Qualys WAS Burp Extension







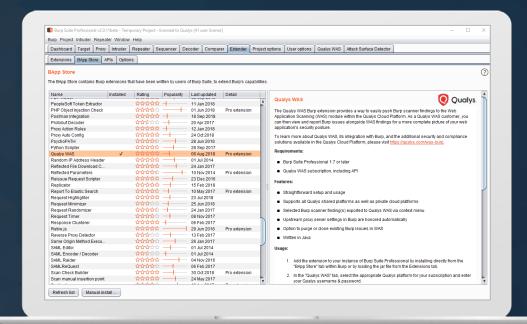
A quick, intuitive way to send Burp-discovered issues into WAS

Provides centralized viewing/reporting of WAS detections + Burp issues

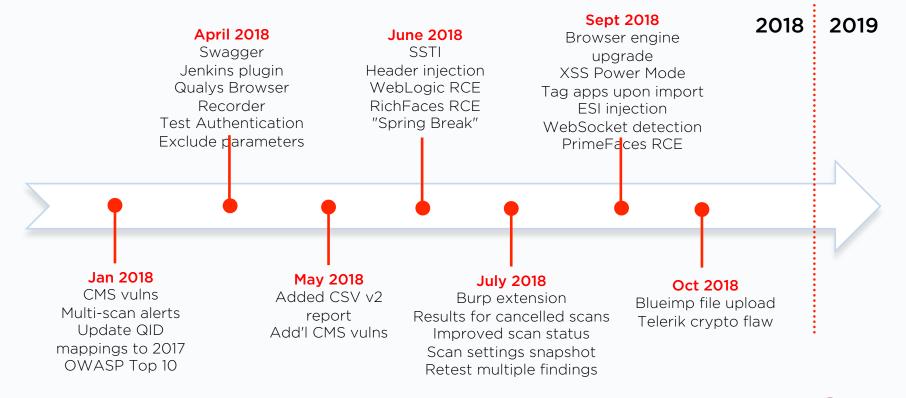
Available in Burp's BApp Store



Qualys WAS Burp extension



WAS Enhancements, YTD





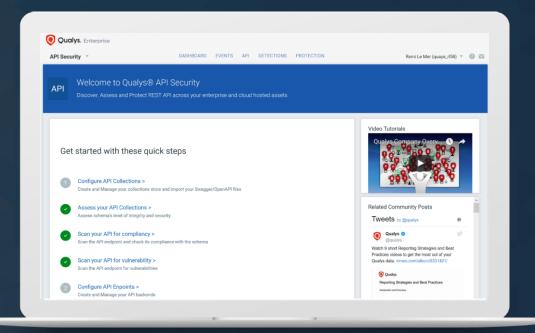


WAS Roadmap

Feb-Mar 2019 TLS 1.3 support 2018 2019 SSL/TLS detections Out-of-band detections Security header tests Enhanced crawling CyberArk PIM integration **Dec 2018** Jan 2019 Q2-Q3 2019 Blind XPATH injection Custom scan Elasticsearch Improved KB search intensity New dashboard Custom report footer Jenkins plugin v2 UI modernization Burp & Bugcrowd findings added to Support OpenAPI v3 report Support Postman Ignore finding time limit Collections "Launch Now" for scheduled report



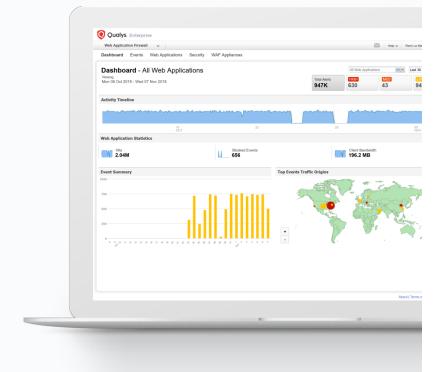
And Coming in 2019





Qualys WAF

Integration with WAS
Architecture improvements
Integration with Docker
Security Improvements
Roadmap - standalone
Roadmap - Integrated Suite

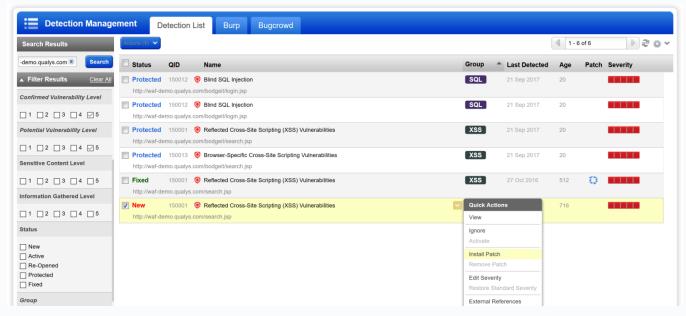




WAS / WAF Integration: ScanTrust

ScanTrust: Challenge your WAF protection

Assess both the application and the policy that protects it

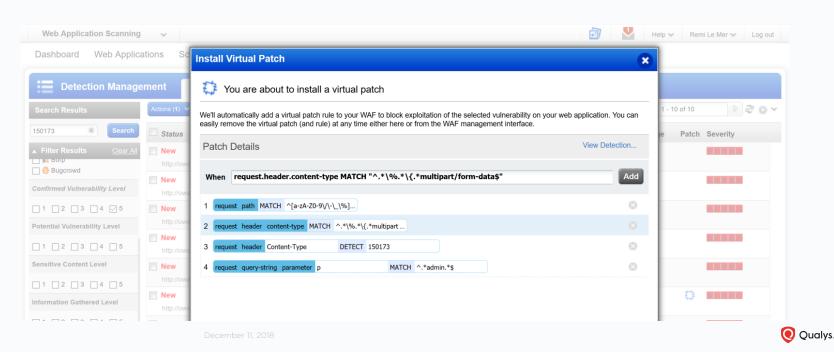




WAS / WAF Integration: Virtual Patch

Virtual Patch: One-click mitigation tool for CISO teams

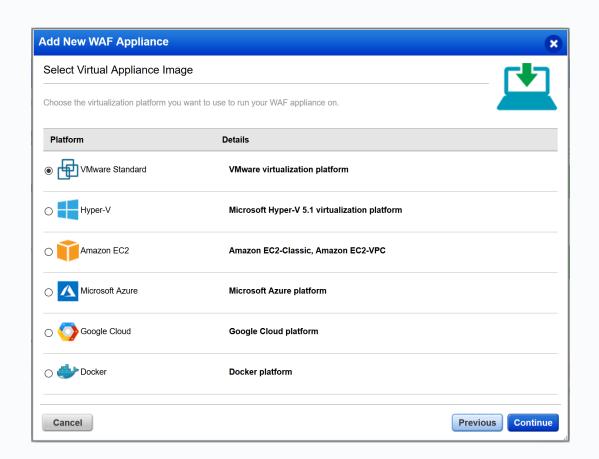
Run from within WAS to address confirmed threats





Supported Platforms

Shared and Private Qualys Cloud Platforms





WAF Architecture Improvements

Easy and Usable Architecture

Virtual Reverse-Proxy

Cluster-able within hybrid topologies

Load-Balancing capabilities

SSL/TLS cipher suite categories





WAF Architecture Improvements

Virtual Appliance & Container (v1.5.3)

XML/JSON content inspection

Docker Host integration for backend automation

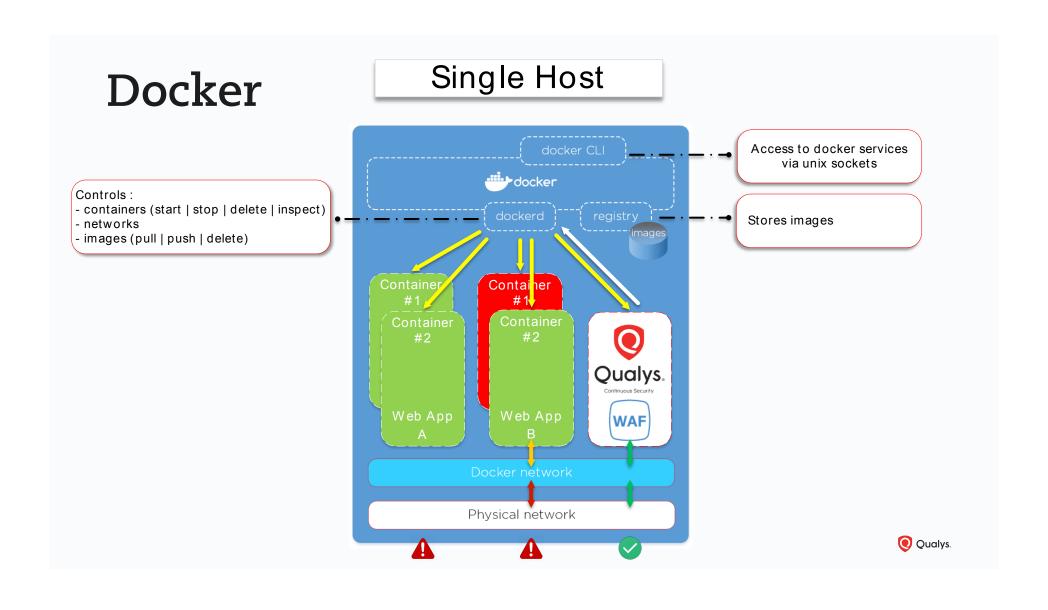
Better performance

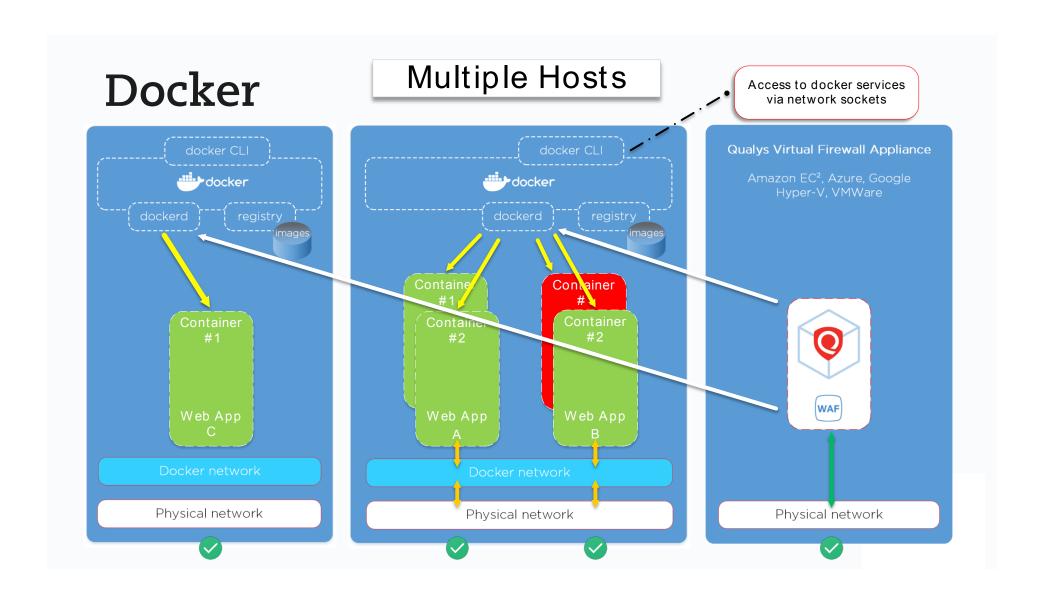
Scheduled upgrades

Orchestration via Qualys API









Security Improvements

Custom Rules: write and manage your own filters

XML/JSON inspection

Virtual Patches and Event Exceptions

Latency control

Rewriting capabilities (headers)

Qualys Rulesets and Templates

DAG based inspection, programmable logic

Drupal 8.0.x, Joomla 3.4.x, Magento 2.5-2.6, Wordpress 4.2.x-4.3.x

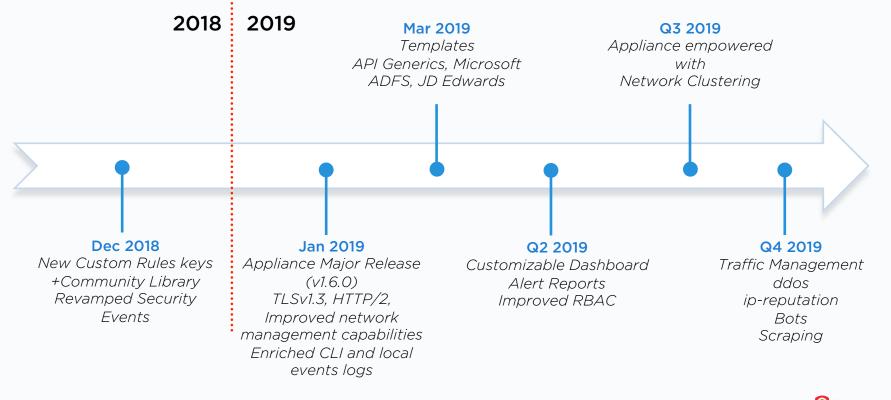
JBoss 4.x-7.x, OWA 2010-2017, Sharepoint 2010-2017, Tomcat 8.0.x

Qualys Generics for unknown apps



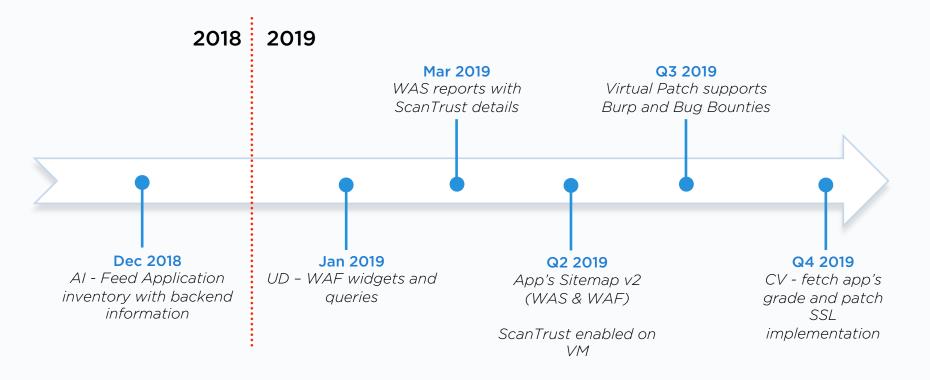


WAF Roadmap - Standalone





WAF Roadmap – Integrated Suite







Thank You

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